

TUNTURI®



VER. 1.00

Service Manual

Tunturi T10, T20 T30 & T40



1 FOREWORD

This Service Manual contains instructions and advice on service procedures for Tunturi treadmills T10, T20 and T30 (applies also to the Tunturi T40 from 2006 onwards).

The primary intention of this Service Manual is to enhance the reader's knowledge of the structures of the T10 and T20 treadmills. Notice that in case of a fault or a malfunction, the component or unit of components in question, and especially the electronic components, are not to be repaired, instead they must be replaced with a new component.

The components of the product frame and their locations with the reference and spare part numbers can best be found in the exploded parts diagrams. Replacing the components does not require special tools, but assumes a certain level of technical competence and familiarity with basic hand tools.

NB! Always when servicing the treadmill be sure that the power has been switch off and the main cable is plugged off the power board. Big capacitors on the control board might retain high voltage level even for several hours after the unit has been plugged off from the power outlet.

VERSION HISTORY

Date	Version	Author	Change description
2006-01-16	0.30	PVI	Electronics, error codes, appendices, TOC – first public version available on the Extranet
2006-08-08	1.00	PVI	Updated product information + troubleshooting. Mechanical section will not be needed.

1	FOREWORD	1
	VERSION HISTORY	1
2	ELECTRONICS	3
2.1	SERVICE MENUS	3
2.1.1	ENGINEERING MODE	3
2.1.2	TESTING MODE	4
2.1.3	LIFT MOTOR CALIBRATION	4
3	ERROR TEXTS	7
E1	7
E6	7
E7	8
4	APPENDICES	9
1.	LOWER BOARD AND CONNECTOR LOCATIONS	9
2.	TECHNICAL DATA	9
3.	TROUBLESHOOTING	10
4.	SPARE PART DIAGRAMS	11

2 ELECTRONICS

The main electrical components of the Tunturi T10 and T20 are user interface (B02), power board (B44), motor (B18), lift motor (B25) speed sensor (B23), and power cable (B29).

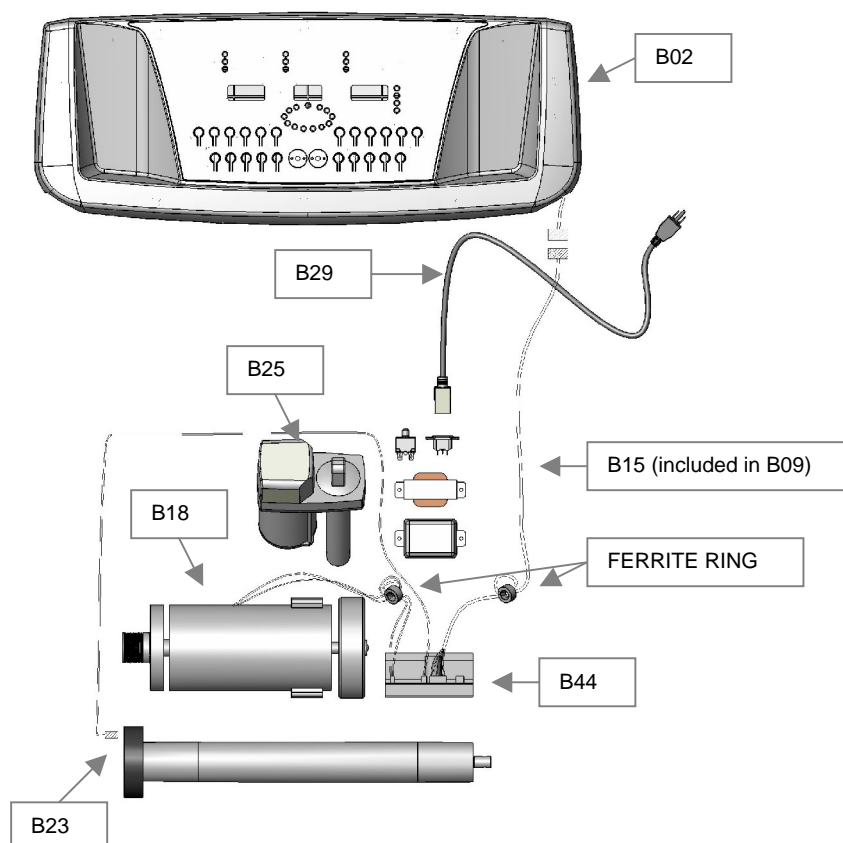


Figure 1 Tunturi T10 and T20 electrical components and their connections (numbering refers to spare part diagram)

2.1 SERVICE MENUS

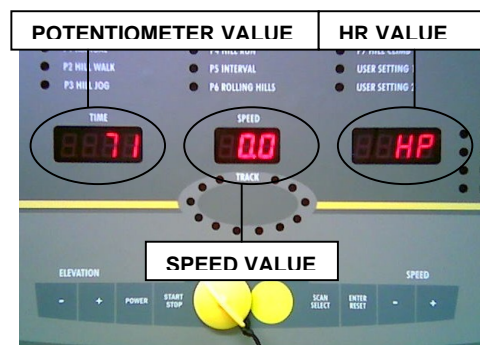
2.1.1 Engineering Mode

1. Enter the engineering mode after switching the treadmill POWER ON by pushing first 'SELECT' and then 'ENTER' and hold buttons pressed simultaneously
2. The SPEED window shows the treadmill software version number, TIME window shows the software design year and DISTANCE window shows the design date in "MM.DD" format
3. Press 'ENTER' to show LDU version number (Display control software)
4. Press 'ENTER' to show ISP version number

5. Press 'ENTER' to enter **KM/MILE switch mode**, 1 for KM, 0 for MILE
 - Switch between the KM or MILE setting by pressing SPEED +/- or ELEVATION +/-
6. Press 'ENTER' to show **total distance**
7. Press 'ENTER' to show **total usage hours**
8. Press 'ENTER' to return to the normal mode

2.1.2 Testing Mode

1. Enter the testing mode after switching the treadmill POWER ON by pushing first 'SELECT' and then 'SPEED DOWN' and hold buttons pressed simultaneously
2. LED scanning mode for verifying display functionality
3. Press 'ENTER' to scan DATA LINES to verify display functionality
4. Press 'ENTER' to scan SACN LINES to verify display functionality
5. Press 'ENTER' to scan LED's to verify display functionality
6. After pressing 'ENTER' the TIME window shows "test" and the keypad functionality can be tested (the value displayed changes when a button is being pressed)
7. Press 'ENTER' to enter IO mode (TIME display shows lift motor potentiometer value, SPEED reads speed from speed sensor and DISTANCE shows heart rate pulse)
 - Press 'START' to test lower board relay (a "click" sound) and then press 'ELEVATION UP' for 2 seconds to increase the elevation to 8%. Press 'ELEVATION DOWN' to decrease the elevation to minimum percentage 0%
 - Press 'SPEED UP' to increase speed value and 'SPEED DOWN' to decrease speed value.



Press 'ENTER' to repeat above test or 'SELECT' and 'SPEED DOWN' buttons simultaneously to return to the normal mode

2.1.3 Lift motor calibration

The lift motor calibration is done manually by following the following steps:

1. Drive the lift motor to 0% from user interface (inclination display must be 0%)
2. Switch off the treadmill and unplug the power cable
3. Remove motor cover
4. Fold up the running deck
5. Loosen two screws (A) attaching the lift motor nut (B) to the incline frame (Figure 2)
6. Adjust the lift motor nut (B) so that there is 9 mm gap between the upper end of the nut and the lift motor frame (Figure 2)

7. Tighten the screws (A) and verify correct elevation by measuring (Figure 3)

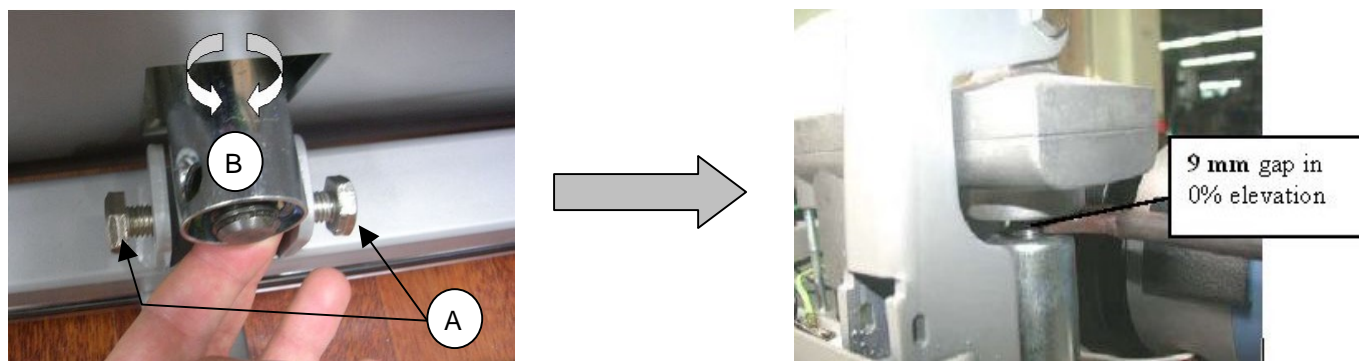


Figure 2 Adjusting lift motor to 0% position

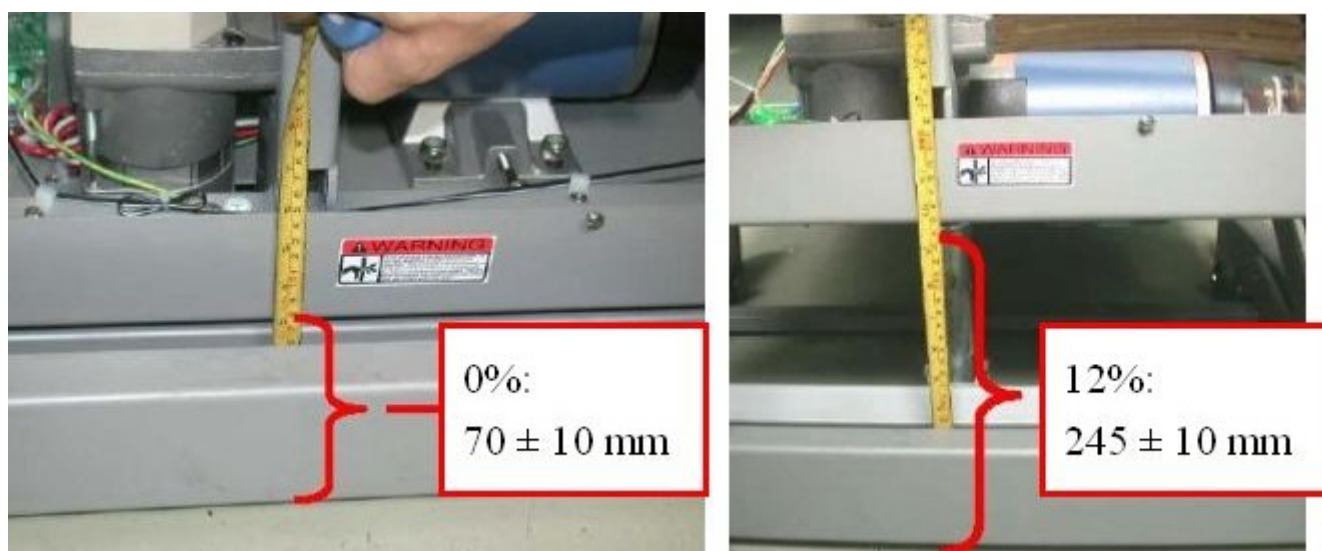


Figure 3 Measuring correct lift motor positions

Lift motor calibration is needed if any of the following has taken place:

- The lift motor has been removed from the frame
- The actual and the displayed elevation angle doesn't match

Table 1 Lift motor potentiometer value table for the Tunturi T10, T20, T30 & T40

Elevation	Lift motor I/O
0 %	90 ± 30 ($1,1 \pm 0,1 \text{ k}\Omega$)
1 %	170 ± 30
2 %	240 ± 30
3 %	320 ± 30
4 %	400 ± 30
5 %	490 ± 30
6 %	590 ± 30
7 %	700 ± 30
8 %	810 ± 30
9 %	940 ± 30
10 %	1090 ± 30
11 %	1240 ± 30
12 %	1420 ± 30 ($8,54 \pm 0,1 \text{ k}\Omega$)

The values in the Table 1 are reference information for troubleshooting only. Resistance is measured from black and white wires (see picture below)

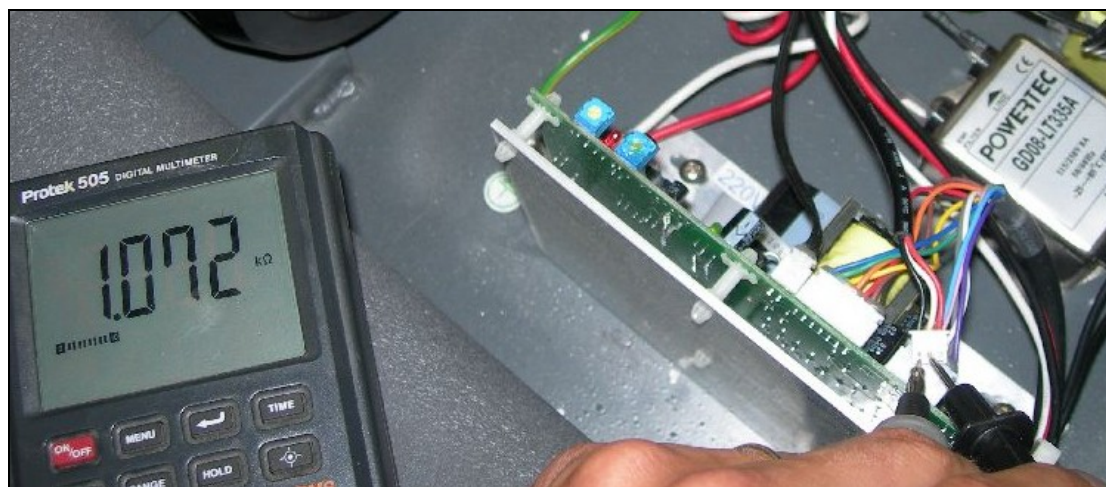


Figure 4 The lift motor potentiometer resistance at 0% inclination (measurement between black and white wire)

3 ERROR TEXTS

To facilitate the maintenance, error codes on display refer to internally found malfunctions; error codes as such aren't malfunctions, they merely point to observed problem. As a general rule, when a source of malfunction is located, it should not be repaired, but instead replaced with a new component. Error texts can be removed from the display by disconnecting the treadmill power cable for about 10 seconds.

When an error text occurs, the first thing to do, if not any obvious visible reasons found, is to try to repeat it after being switched off and on again.

E1

Instruction in the owner's manual:

"Speed sensor error. Unplug the electrical cord from the wall outlet and from the treadmill, wait 1 minute and turn the power switch on again. If treadmill recovers to normal operation, you may continue to use the treadmill. Otherwise, call the dealer for service."

The error will appear if the upper board can not receive pulses from the speed sensor for 10 seconds.

Possible reasons:

- Speed sensor not properly assembled, the distance between the magnet and the speed sensor should be less than 3mm.
- Speed sensor cable disconnected
- Meter cable has a poor connection at some point
- Magnet missing from the front roller pulley
- Front roller not rotating at all due to loose drive belt

Check the distance between the speed sensor and the flywheel and ensure that the speed sensor is properly attached to the motor frame. Check also speed sensor connections.

Error can be reset also by re-inserting the safety key.

E6

Instruction in the owner's manual:

" Lift motor error. Unplug the electrical cord from the wall outlet and from the treadmill, wait 1 minute and turn the power switch on again. If treadmill recovers to normal operation, you may continue to use the treadmill. Otherwise, call the dealer for service."

The error message appears when voltage is being supplied to the lift motor but it doesn't move.

Possible reasons:

- Lift motor power cable disconnected
- Lift motor electronically damaged preventing the movement

Error can be reset only by disconnecting the power cable.

E7

Instruction in the owner's manual:

"Lift motor error. Unplug the electrical cord from the wall outlet and from the treadmill, wait 1 minute and turn the power switch on again. If treadmill recovers to normal operation, you may continue to use the treadmill. Otherwise, call the dealer for service."

The values the lift motor potentiometer is sending are not within the preset limits. Check the potentiometer I/O value from the service menu (Chapter 2.1.2) and compare it to minimum and maximum reference values in chapter 2.1.3. The potentiometer value is also displayed on the user interface when "error 7" appears.

If the readout from the potentiometer is **1** the software is not picking any signal from the potentiometer. Possible reasons:

- Lift motor rotation sensor (potentiometer) cable disconnected
- Lift motor rotation sensor has poor internal contact thus providing incorrect values
- The second connection cable between user interface and lower board disconnected
- The potentiometer has lost its calibration and rotated to minimum

If the readout from the potentiometer has lost its calibration setting and it differs from reference values adjust potentiometer (Figure 5) to obtain correct value.

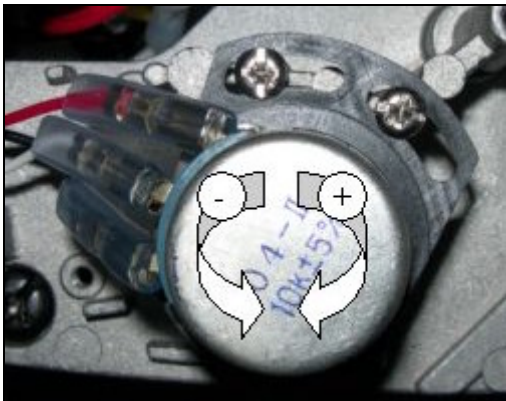


Figure 5 Lift motor potentiometer adjustment and how it affects on readout value

If the potentiometer has lost its position it can be lifted up after removing two attachment screws. Turn the potentiometer shaft to obtain correct setting and place the potentiometer back to the lift motor. To ensure that potentiometer maintains correct calibration setting a small amount of glue should be added to shaft before inserting it back to its counterpart.

Error can be reset also by re-inserting the safety key.

4 APPENDICES

1. LOWER BOARD AND CONNECTOR LOCATIONS

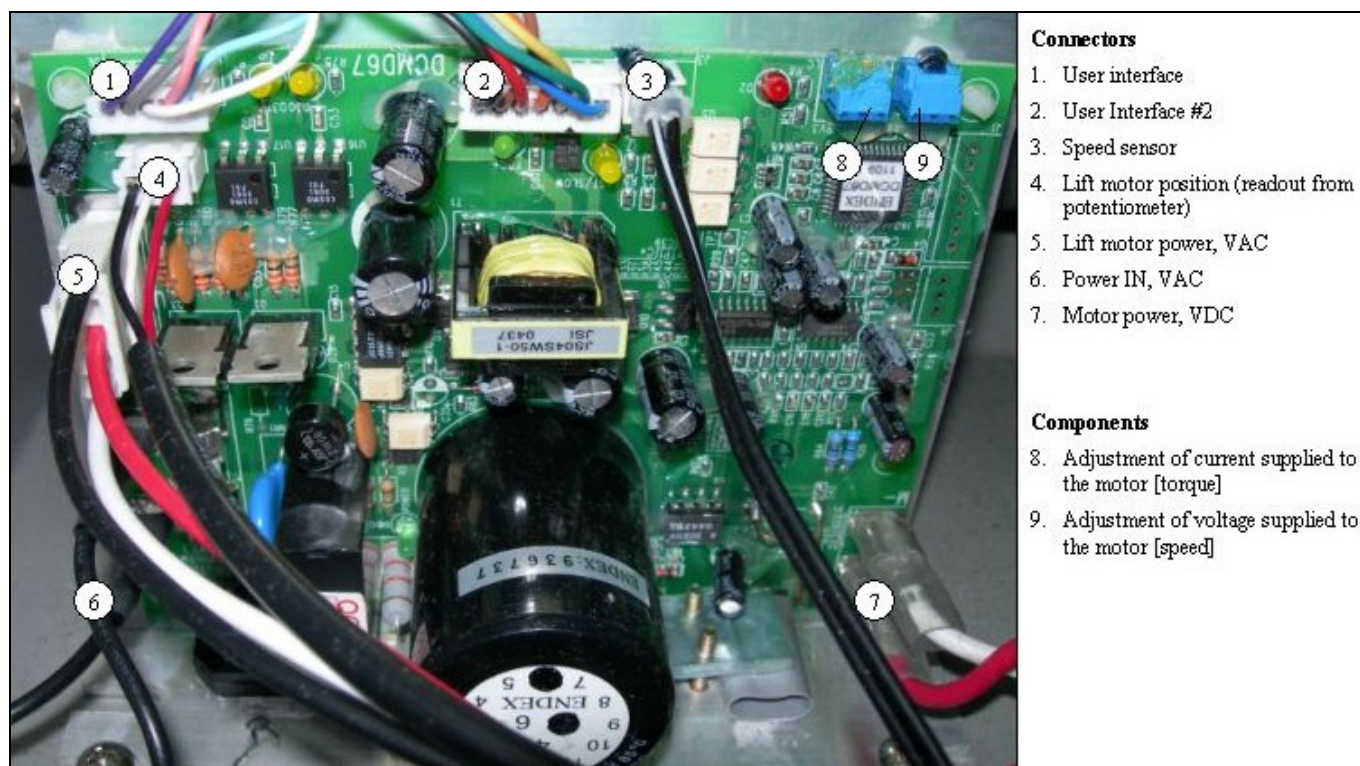


Figure 6 Lower board connectors and components

2. TECHNICAL DATA

T10 (and T20 autumn 2006 onwards)

Length (storage position)	185 cm (83 cm)
Height (storage position)	133 cm (175 cm)
Width	88 cm
Weight	94 kg
Running surface	47 x 133 cm
Speed	0.8-16.0 km/h
Elevation range	0-12 %
Motor.....	2.0 HP

T20 (before autumn 2006), T30 & T40

Length (storage position)	190 cm (82 cm)
Height (storage position)	144 cm (186 cm)
Width	86 cm
Weight	99 kg
Running surface	51 x 141 cm
Speed	0.8-20.0 km/h
Elevation range	0-12 %

Motor..... 2.0 HP

The T10, T20, T30 & T40 treadmill meets the requirements of the EU's EMC Directives on electromagnetic compatibility (89/336/EEC) and electrical equipment designed for use within certain voltage limits (73/23/EEC). This product therefore carries the CE label.

The T10, T20, T30 & T40 treadmills meet EN precision and safety standards (EN-957).

Due to our continuous policy of product development, Tunturi reserves the right to change specifications without notice.

3. TROUBLESHOOTING

- Treadmill is making knocking noise
 - The best way to start finding the root cause of the problem is to listen to the frequency of the noise. For example, the running belt seam overlaps a roller twice per revolution, should this be the frequency of the noise, the belt needs to be adjusted or replaced. If the noise has significantly higher frequency it is likely to be caused by a damaged front or rear roller bearing.
 - Adjust the rear foot to make the treadmill deck even with the floor
- Heart rate readings are inaccurate
 - The motor wires need to be wrapped through a ferrite ring and twisted around each other in order to prevent possible heart rate reading interference
 - Home appliances, e.g. TV and mobile phone, and electric network can generate interference. Try using equipment in different environment
- Circuit breaker (10A) trips repeatedly
 - Check that the treadmill is running mechanically free
 - Check belt lubrication
 - If the wall outlet voltage is lower than normal the required current is higher and might cause the breaker to trip
- Static electricity
 - Lubricate deck according to instructions in owner's manual
 - Eliminate static electricity generators; user should not use nylon clothing and/or should try another pair of different type of training shoes
 - Ensure that the frame grounding wires are contacting steel by removing possible paint between the wire connector and frame (see picture)

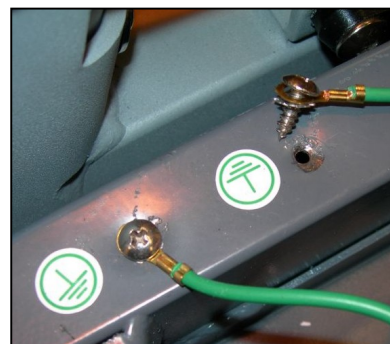
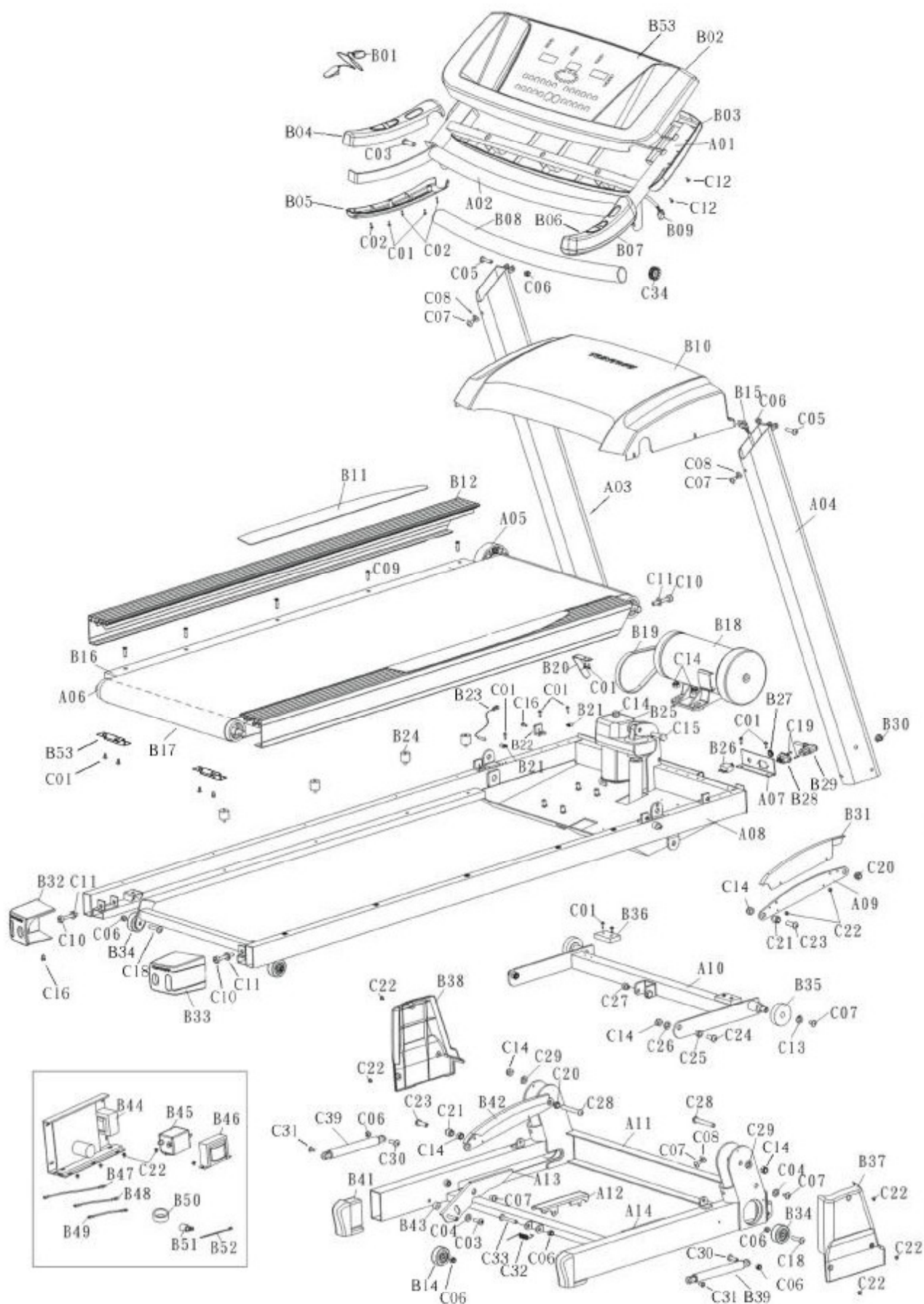


Figure 7 Proper grounding eliminates static electricity

4. SPARE PART DIAGRAMS

Please refer to the next page.

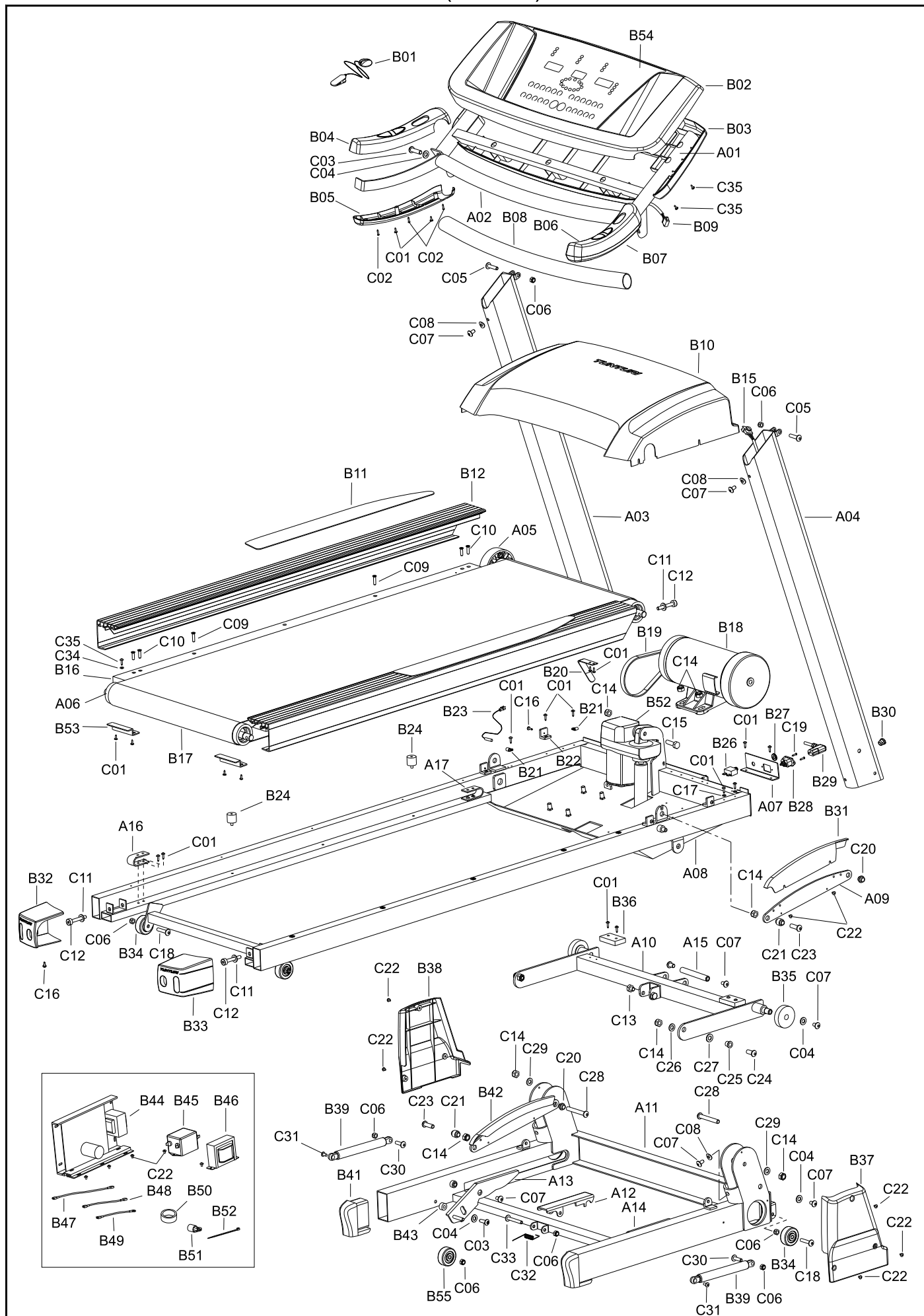
T10 (441000)



T10 (441000)

Item	Part No	Description	Unit	Item	Part No	Description	Unit
A01	103 4080	Console base	1	B41	533 4132	Front support end cap	2
A02	203 4077	Horizontal bar (incl. B08)	1	B42	173 4128	Incline bracket cover, LH	1
A03	203 4078	Handlebar, LH	1	B43	653 4064	Plastic washer	2
A04	203 4079	Handlebar, RH	1	B44	403 4172	Power board, 230V	1
A05	523 4062	Front roller	1	-	403 4173	Power board, 110V	1
A06	523 4063	Rear roller	1	B45	403 4174	Filter, EUR	1
A07	503 4089	Switch bracket	1	B46	403 4175	Transformer, EUR	1
A08	103 4077	Frame	1	B47	403 4176	Wire set (incl. B47, B48, B49)	1
A09	503 4090	Incline bracket	2	B50	403 4181	Ferrite	2
A10	103 4079	Incline structure frame	1	B51	503 4095	Wire holder	2
A11	103 4078	Front support frame	1	B53	433 4047	Z-plate	2
A12	373 4013	Locking lever	1	B54	423 4144	Membrane	1
A13	533 4134	Wheel bracket LH	1	C01	4,2x12 DIN 7981	Screw	22
A14	533 4135	Wheel bracket RH	1	C02	3,5x16 DIN 7981	Screw	6
B01	403 4181	Safety key	1	C03	M8x25 DIN 912	Hexagon socket cap screw	4
B02	233 4046	User interface, (incl. B55, B03)	1	*C04	M8 DIN 125	Washer (* 2 pcs)	4
B03	173 4123	Lower cover	1	C05	M8x35 ISO 7380	Screw	2
B04	173 4129	Handlebar cover, LH (incl. B05)	1	C06	M8 DIN 985	Locking nut	11
B06	173 4131	Handlebar cover, RH (incl. B07)	1	C07	M8x20 ISO 7380	Hexagon screw (*6 pcs)	10
B08	213 4025	Handle grip	1	*C08	653 4066	Washer	4
B09	403 4170	Wire set (incl. B15)	1	C09	M6x25 DIN 7991	Countersunk head screw	10
B10	173 4126	Motor cover	1	C10	M8x55 DIN 912	Hexagon socket cap screw	3
B11	433 4046	Anti-slip mat, pair	1	C11	M8 DIN 125	Washer	3
B12	433 4064	Side landing	2	C12	4,2x16 DIN 7981	Screw	10
B14	533 4127	Wheel 50mm	2	C13	M8 DIN 128	Washer	2
B16	433 4065	Running deck	1	C14	M10 DIN 985	Nylock nut	9
B17	443 4055	Running belt	1	C15	M10x40 DIN 931	Screw	1
B18	813 4036	Motor, 230V	1	C16	4,2x12 DIN 7981	Screw	8
-	813 4037	Motor, 110V	1	C18	M8x40 ISO 7380	Hexagon socket cap screw	4
B19	443 4056	Drive belt	1	C19	2,9x10 DIN 7982	Screw	2
B20	693 4008	Belt guide	2	C20	523 4064	Fixiging tube	2
B21	503 4094	Wire holder	2	C21	523 4065	Fixiging tube	2
B22	503 4091	Motor cover bracket	4	*C22	M4x6 DIN 7500 C	Screw (* 6 pcs)	19
B23	403 4169	Speed sensor	1	C23	M10x32 ISO 7380	Screw	2
B24	533 4133	Rubber bumper	8	C24	M10x25 ISO 7380	Screw	2
B25	813 4038	Lift motor	1	C25	523 4064	Fixiging tube	2
B26	403 4185	Overcurrent protector (incl B27)	1	C26	M10 DIN 125	Washer	2
B28	403 4186	Power socket	1	C27	M10x12 ISO 4032	Screw	2
B29	403 4134 EU	Power cable	1	C28	M10x70 DIN 912	Screw	2
-	403 4134 USA	Power cable	1	C29	M10 DIN 6798A	Washer	2
-	403 4134 GB	Power cable	1	C30	M8x28 ISO 7380	Hexagon socket cap screw	2
-	403 4134 ISR	Power cable	1	C31	M6x12 ISO 7380	Screw	2
-	403 4134 SUI	Power cable	1	C32	643 4010	Spring	1
-	403 4168 AUS	Power cable	1	C33	M8x55 ISO 7380	Hexagon socket cap screw	1
B30	533 4140	Through-leading rubber	1	C34	653 4065	Nut	2
B31	173 4127	Incline bracket cover, RH	1	-	423 4139	Lable set	1
B32	533 4130	Rear end cap, LH	1	*	553 4028	Assembly kit (incl *)	1
B33	533 4131	Rear end cap, RH	1	*	556 032 00	Allen key, 6mm	1
B34	533 4128	Wheel 40mm	4	*	553 101 88	Screw wrench	1
B35	533 4129	Wheel 60mm	2	*	553 100 88	Multihole wrench	1
B36	683 4017	Bumper	2	-	583 4033	Owner's manual	1
B37	173 4124	Side cover RH	1				
B38	173 4125	Side cover LH	1				
B39	163 4011	Gas spring	2				

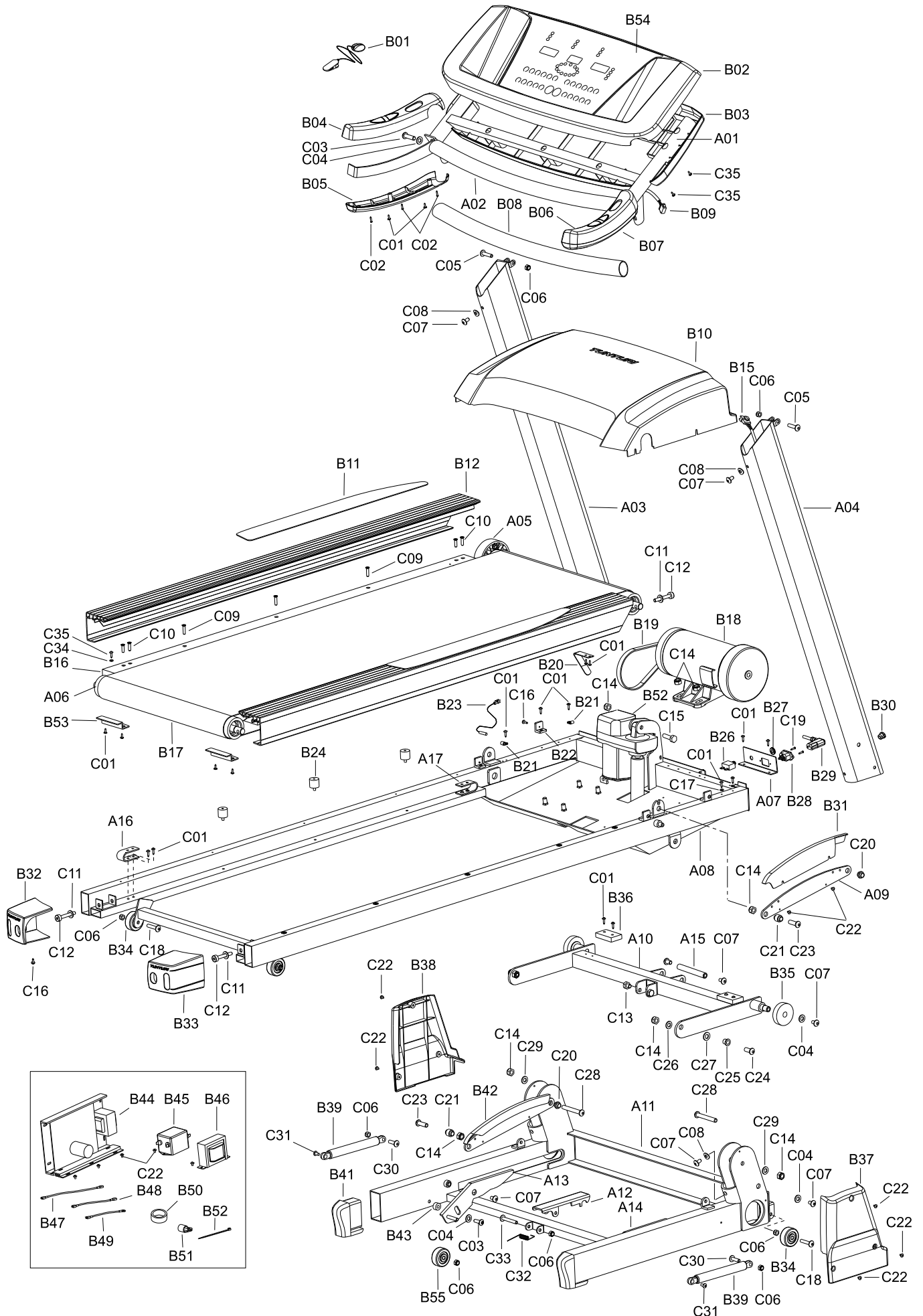
T20 (442039)



T20 (442039)

Item	Part No	Description	Unit	Item	Part No	Description	Unit
A01	103 4080	Console base	1	B39	163 4011	Gas spring	2
A02	203 4077	Horizontal bar (incl. B08)	1	B41	533 4132	Front support end cap	2
A03	203 4078	Handlebar, LH	1	B42	173 4128	Incline bracket cover, LH	1
A04	203 4079	Handlebar, RH	1	B43	653 4064	Plastic washer	2
A05	523 4062	Front roller	1	B44	403 4172	Power board, 230V	1
A06	523 4063	Rear roller	1	-	403 4173	Power board, 110V	1
A07	503 4089	Switch bracket	1	B45	403 4174	Filter, EUR	1
A08	103 4077	Frame	1	B46	403 4175	Transformer, EUR	1
A09	503 4090	Incline bracket	2	B47	403 4176	Wire set (incl. B47,B48, B49)	1
A10	103 4090	Incline structure frame	1	B50	403 4181	Ferrite	2
A11	103 4078	Front support frame	1	B51	503 4095	Wire holder	2
A12	373 4013	Locking lever	1	B52	502 802 74	Plastic fixer	5
A13	533 4134	Wheel bracket LH	1	B53	433 4047	Z-plate	2
A14	533 4135	Wheel bracket RH	1	B54	423 4155	Membrane	1
A15	343 4022	Incline structure frame axle	1	B55	533 4127	Wheel 50mm	2
A16	643 4011	Leaf spring, rear	2	C01	4,2x12 DIN 7981	Screw	34
A17	643 4012	Leaf spring, front	2	C02	3x20 DIN 7981	Screw	6
B01	403 4182	Safety key	1	C03	M8x25 DIN 912	Hexagon socket cap screw	4
B02	233 4054	User interface, (incl. B54, B03)	1	*C04	M8 DIN 125	Washer (* 2 pcs)	8
B03	173 4123	Lower cover	1	C05	M8x35 ISO 7380	Screw	2
B04	173 4129	Handlebar cover, LH (incl. B05)	1	C06	M8 DIN 985	Locking nut	11
B06	173 4131	Handlebar cover, RH (incl. B07)	1	*C07	M8x20 ISO 7380	Hexagon screw (*6 pcs)	12
B08	213 4025	Handle grip	1	*C08	653 4066	Washer	4
B09	403 4170	Wire set (incl. B15)	1	C09	M6x25 DIN 7991	Countersunk head screw	4
B10	173 4126	Motor cover	1	C10	M10x25 DIN 7380	Hexagon socket cap screw	8
B11	433 4046	Anti-slip mat,pair	1	C11	M8 DIN 125	Washer	4
B12	433 4064	Side landing, pair	1	C12	M8x55 DIN 912	Hexagon socket cap screw	3
B16	433 4065	Running deck	1	C13	M10x12 ISO 4032	Screw	2
B17	443 4055	Running belt	1	C14	M10 DIN 985	Nylock nut	11
B18	813 4036	Motor, 230V	1	C15	M10x40 DIN 931	Screw	1
-	813 4037	Motor, 110V	1	C16	4,2x12 DIN 968	Screw	8
B19	443 4056	Drive belt	1	C17	M4 DIN 6798J	Star washer	5
B20	693 4008	Belt guide	2	C18	M8x40 ISO 7380	Hexagon socket cap screw	4
B21	503 4094	Wire holder	2	C19	2,9x10 DIN 7982	Screw	2
B22	503 4091	Motor cover bracket	4	C20	523 4064	Fixing tube	2
B23	403 4169	Speed sensor	1	C21	523 4065	Fixing tube	2
B24	533 4133	Rubber bumper	4	*C22	M4x6 DIN 7500 C	Screw (*6 pcs)	18
B25	813 4038	Lift motor	1	C23	M10x32 ISO 7380	Screw	2
B26	403 4185	Overcurrent protector (incl B27)	1	C24	M10x25 ISO 7380	Screw	2
B28	403 4186	Power socket	1	C25	523 4064	Fixing tube	2
B29	403 4134 EU	Power cable	1	C26	M10 DIN 125	Washer	2
-	403 4134 USA	Power cable	1	C27	653 4068	Washer	2
-	403 4134 GB	Power cable	1	C28	M10x70 DIN 912	Screw	2
-	403 4134 ISR	Power cable	1	C29	M10 DIN 6798A	Washer	2
-	403 4134 SUI	Power cable	1	C30	M8x28 ISO 7380	Hexagon socket cap screw	2
-	403 4168 AUS	Power cable	1	C31	M6x12 ISO 7380	Screw	2
B30	533 4140	Through-leading rubber	1	C32	643 4010	Spring	1
B31	173 4127	Incline bracket cover, RH	1	C33	M8x55 ISO 7380	Hexagon socket cap screw	1
B32	533 4130	Rear end cap, LH	1	C34	M5 DIN 125	Washer	2
B33	533 4131	Rear end cap, RH	1	C35	4,2x16 DIN 7981	Screw	12
B34	533 4128	Wheel 40mm	4	-	423 4140	Label set	1
B35	533 4129	Wheel 60mm	2	*	553 4028	Assembly kit (incl *)	1
B36	683 4017	Bumper	2	*	556 032 00	Allen key, 6mm	1
B37	173 4124	Side cover RH	1	*	553 101 88	Screw wrench	1
B38	173 4125	Side cover LH	1	-	583 4033	Owner's manual	1

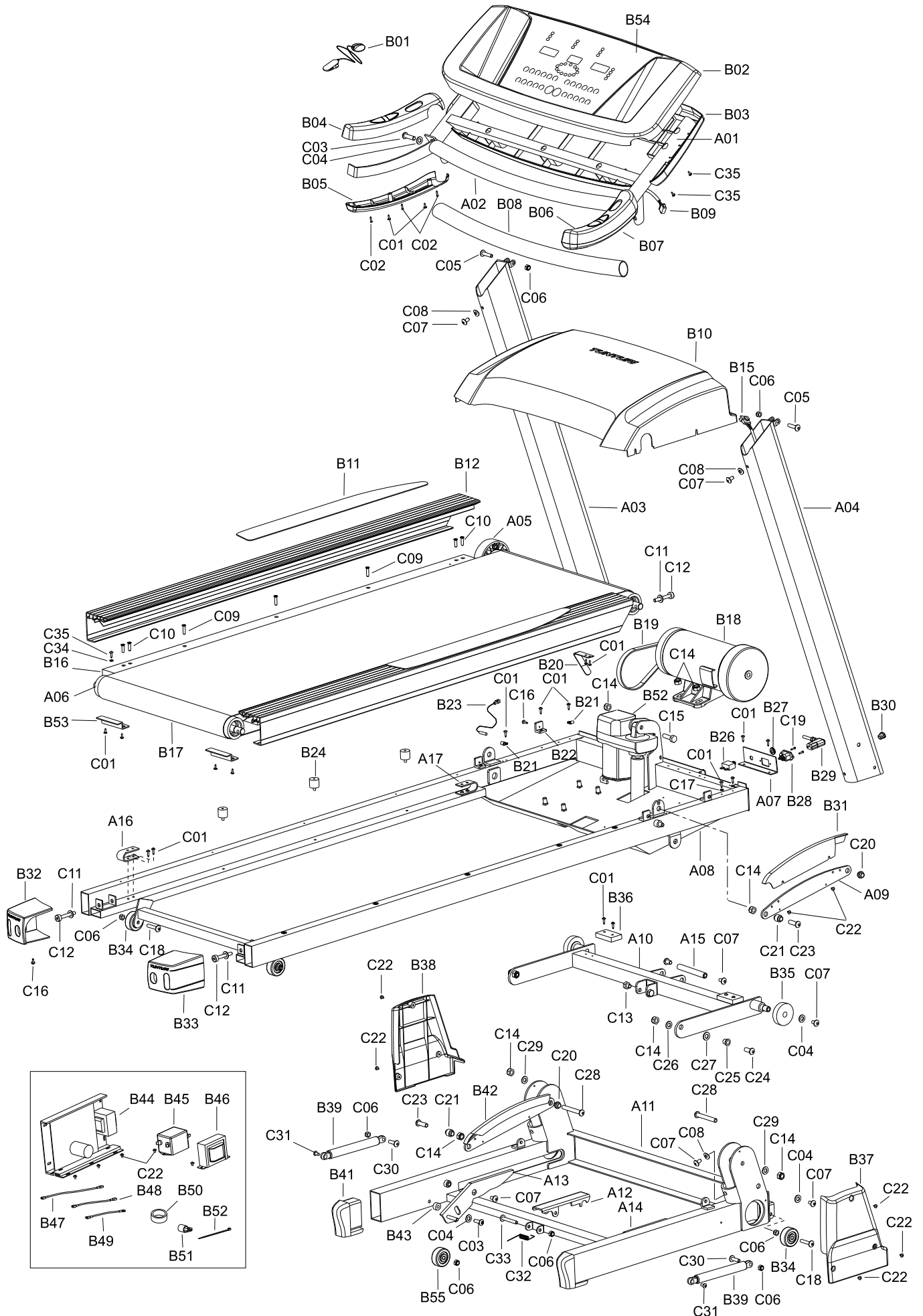
T30 (443039)



T30 (443039)

Item	Part No	Description	Unit	Item	Part No	Description	Unit
A01	103 4088	Console base	1	B39	163 4011	Gas spring	2
A02	203 4083	Horizontal bar (incl. B08)	1	B41	533 4132	Front support end cap	2
A03	203 4078	Handlebar, LH	1	B42	173 4128	Incline bracket cover, LH	1
A04	203 4079	Handlebar, RH	1	B43	653 4064	Plastic washer	2
A05	523 4066	Front roller	1	B44	403 4183	Power board, 230V	1
A06	523 4067	Rear roller	1	-	403 4184	Power board, 110V	1
A07	503 4089	Switch bracket	1	B45	403 4174	Filter, EUR	1
A08	103 4085	Frame	1	B46	403 4175	Transformer, EUR	1
A09	503 4090	Incline bracket	2	B47	403 4176	Wire set (incl. B47,B48, B49)	1
A10	103 4091	Incline structure frame	1	B50	403 4181	Ferrite	2
A11	103 4086	Front support frame	1	B51	503 4095	Wire holder	2
A12	373 4013	Locking lever	1	B52	502 802 74	Plastic fixer	5
A13	533 4134	Wheel bracket LH	1	B53	433 4047	Z-plate	2
A14	533 4135	Wheel bracket RH	1	B54	423 4156	Membrane	1
A15	343 4022	Incline structure frame axle	1	B55	533 4127	Wheel 50mm	2
A16	643 4011	Leaf spring, rear	2	C01	4,2x12 DIN 7981	Screw	34
A17	643 4012	Leaf spring, front	2	C02	3x20 DIN 7981	Screw	6
B01	403 4182	Safety key	1	C03	M8x25 DIN 912	Hexagon socket cap screw	4
B02	233 4055	User interface, (incl. B54, B03)	1	*C04	M8 DIN 125	Washer (* 2 pcs)	8
B03	173 4140	Lower cover	1	C05	M8x35 ISO 7380	Screw	2
B04	173 4129	Handlebar cover, LH (incl. B05)	1	C06	M8 DIN 985	Locking nut	11
B06	173 4131	Handlebar cover, RH (incl. B07)	1	*C07	M8x20 ISO 7380	Hexagon screw (*6 pcs)	10
B08	213 4026	Handle grip	1	*C08	653 4066	Washer	4
B09	403 4170	Wire set (incl. B15)	1	C09	M6x25 DIN 7991	Countersunk head screw	6
B10	173 4141	Motor cover	1	C10	M10x25 DIN 7380	Hexagon socket cap screw	8
B11	433 4046	Anti-slip mat,pair	1	C11	M8 DIN 125	Washer	4
B12	433 4073	Side landing, pair	1	C12	M8x55 DIN 912	Hexagon socket cap screw	3
B16	433 4068	Running deck	1	C13	M10x12 ISO 4032	Screw	2
B17	443 4057	Running belt	1	C14	M10 DIN 985	Nylock nut	11
B18	813 4039	Motor, 230V	1	C15	M10x40 DIN 931	Screw	1
-	813 4040	Motor, 110V	1	C16	4,2x12 DIN 968	Screw	8
B19	443 4056	Drive belt	1	C17	M4 DIN 6798J	Star washer	5
B20	693 4008	Belt guide	2	C18	M8x40 ISO 7380	Hexagon socket cap screw	4
B21	503 4094	Wire holder	2	C19	2,9x10 DIN 7982	Screw	2
B22	503 4091	Motor cover bracket	4	C20	523 4064	Fixing tube	2
B23	403 4169	Speed sensor	1	C21	523 4065	Fixing tube	2
B24	533 4133	Rubber bumper	6	*C22	M4x6 DIN 7500 C	Screw (*6 pcs)	18
B25	813 4038	Lift motor	1	C23	M10x32 ISO 7380	Screw	2
B26	403 4185	Overcurrent protector (incl B27)	1	C24	M10x25 ISO 7380	Screw	2
B28	403 4186	Power socket	1	C25	523 4064	Fixing tube	2
B29	403 4134 EU	Power cable	1	C26	M10 DIN 125	Washer	2
-	403 4134 USA	Power cable	1	C27	653 4068	Washer	2
-	403 4134 GB	Power cable	1	C28	M10x70 DIN 912	Screw	2
-	403 4134 ISR	Power cable	1	C29	M10 DIN 6798A	Washer	2
-	403 4134 SUI	Power cable	1	C30	M8x28 ISO 7380	Hexagon socket cap screw	2
-	403 4168 AUS	Power cable	1	C31	M6x12 ISO 7380	Screw	2
B30	533 4140	Through-leading rubber	1	C32	643 4010	Spring	1
B31	173 4127	Incline bracket cover, RH	1	C33	M8x55 ISO 7380	Hexagon socket cap screw	1
B32	533 4130	Rear end cap, LH	1	C34	M5 DIN 125	Washer	2
B33	533 4131	Rear end cap, RH	1	C35	4,2x16 DIN 7981	Screw	12
B34	533 4128	Wheel 40mm	4	-	423 4148	Label set	1
B35	533 4129	Wheel 60mm	2	*	553 4028	Assembly kit (incl *)	1
B36	683 4017	Bumper	2	*	556 032 00	Allen key, 6mm	1
B37	173 4124	Side cover RH	1	*	553 101 88	Screw wrench	1
B38	173 4125	Side cover LH	1	-	583 4034	Owner's manual	1

T40 (444039)



T40 (444039)

Item	Part No	Description	Unit	Item	Part No	Description	Unit
A01	103 4093	Console base	1	B41	533 4132	Front support end cap	2
A02	203 4083	Horizontal bar (incl. B08)	1	B42	173 4128	Incline bracket cover, LH	1
A03	203 4085	Handlebar, LH	1	B43	653 4064	Plastic washer	2
A04	203 4086	Handlebar, RH	1	B44	403 4183	Power board, 230V	1
A05	523 4066	Front roller	1	-	403 4184	Power board, 110V	1
A06	523 4067	Rear roller	1	B45	403 4174	Filter, EUR	1
A07	503 4096	Switch bracket	1	B46	403 4175	Transformer, EUR	1
A08	103 4094	Frame	1	B47	403 4176	Wire set (incl. B47, B48, B49)	1
A09	503 4097	Incline bracket	2	B50	403 4181	Ferrite	2
A10	103 4095	Incline structure frame	1	B51	503 4095	Wire holder	2
A11	103 4096	Front support frame	1	B52	502 802 74	Plastic fixer	5
A12	373 4015	Locking lever	1	B53	433 4047	Z-plate	2
A13	533 4148	Wheel bracket LH	1	B54	423 4157	Membrane	1
A14	533 4149	Wheel bracket RH	1	B55	533 4127	Wheel 50mm	2
A15	343 4022	Incline structure frame axle	1	C01	4,2x12 DIN 7981	Screw	34
A16	643 4011	Leaf spring, rear	2	C02	3x20 DIN 7981	Screw	6
A17	643 4012	Leaf spring, front	2	C03	M8x25 DIN 912	Hexagon socket cap screw	4
B01	403 4182	Safety key	1	*C04	M8 DIN 125	Washer (* 2 pcs)	8
B02	233 4056	User interface, (incl. B54, B03)	1	C05	M8x35 ISO 7380	Screw	2
B03	173 4140	Lower cover	1	C06	M8 DIN 985	Locking nut	11
B04	173 4129	Handlebar cover, LH (incl. B05)	1	*C07	M8x20 ISO 7380	Hexagon screw (*6 pcs)	10
B06	173 4131	Handlebar cover, RH (incl. B07)	1	*C08	653 4066	Washer	4
B08	213 4026	Handle grip	1	C09	M6x25 DIN 7991	Countersunk head screw	6
B09	403 4170	Wire set (incl. B15)	1	C10	M10x25 ISO 7380	Hexagon socket cap screw	8
B10	173 4141	Motor cover	1	C11	M8 DIN 125	Washer	4
B11	433 4046	Anti-slip mat, pair	1	C12	M8x55 DIN 912	Hexagon socket cap screw	3
B12	433 4073	Side landing, pair	1	C13	M10x12 ISO 4032	Screw	2
B16	433 4068	Running deck	1	C14	M10 DIN 985	Nylock nut	11
B17	443 4058	Running belt	1	C15	M10x40 DIN 931	Screw	1
B18	813 4039	Motor, 230V	1	C16	4,2x12 DIN 968	Screw	8
-	813 4040	Motor, 110V	1	C17	M4 DIN 6798J	Star washer	5
B19	443 4056	Drive belt	1	C18	M8x40 ISO 7380	Hexagon socket cap screw	4
B20	693 4008	Belt guide	2	C19	2,9x10 DIN 7982	Screw	2
B21	503 4094	Wire holder	2	C20	523 4064	Fixing tube	2
B22	503 4091	Motor cover bracket	4	C21	523 4065	Fixing tube	2
B23	403 4169	Speed sensor	1	*C22	M4x6 DIN 7500 C	Screw (*6 pcs)	18
B24	533 4133	Rubber bumper	6	C23	M10x32 ISO 7380	Screw	2
B25	813 4038	Lift motor	1	C24	M10x25 ISO 7380	Screw	2
B26	403 4185	Overcurrent protector (incl B27)	1	C25	523 4064	Fixing tube	2
B28	403 4186	Power socket	1	C26	M10 DIN 125	Washer	2
B29	403 4134 EU	Power cable	1	C27	653 4068	Washer	2
-	403 4134 USA	Power cable	1	C28	M10x70 DIN 912	Screw	2
-	403 4134 GB	Power cable	1	C29	M10 DIN 6798A	Washer	2
-	403 4134 ISR	Power cable	1	C30	M8x28 ISO 7380	Hexagon socket cap screw	2
-	403 4134 SUI	Power cable	1	C31	M6x12 ISO 7380	Screw	2
-	403 4168 AUS	Power cable	1	C32	643 4010	Spring	1
B30	533 4140	Through-leading rubber	1	C33	M8x55 ISO 7380	Hexagon socket cap screw	1
B31	173 4127	Incline bracket cover, RH	1	C34	M5 DIN 125	Washer	2
B32	533 4130	Rear end cap, LH	1	C35	4,2x16 DIN 7981	Screw	12
B33	533 4131	Rear end cap, RH	1	-	423 4158	Label set	1
B34	533 4128	Wheel 40mm	4	-	453 203	HR belt	1
B35	533 4129	Wheel 60mm	2	*	553 4028	Assembly kit (incl *)	1
B36	683 4017	Bumper	2	*	556 032 00	Allen key, 6mm	1
B37	173 4124	Side cover RH	1	*	553 101 88	Screw wrench	1
B38	173 4125	Side cover LH	1	-	583 4037	Owner's manual	1
B39	163 4011	Gas spring	2				